

Figure 1 Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

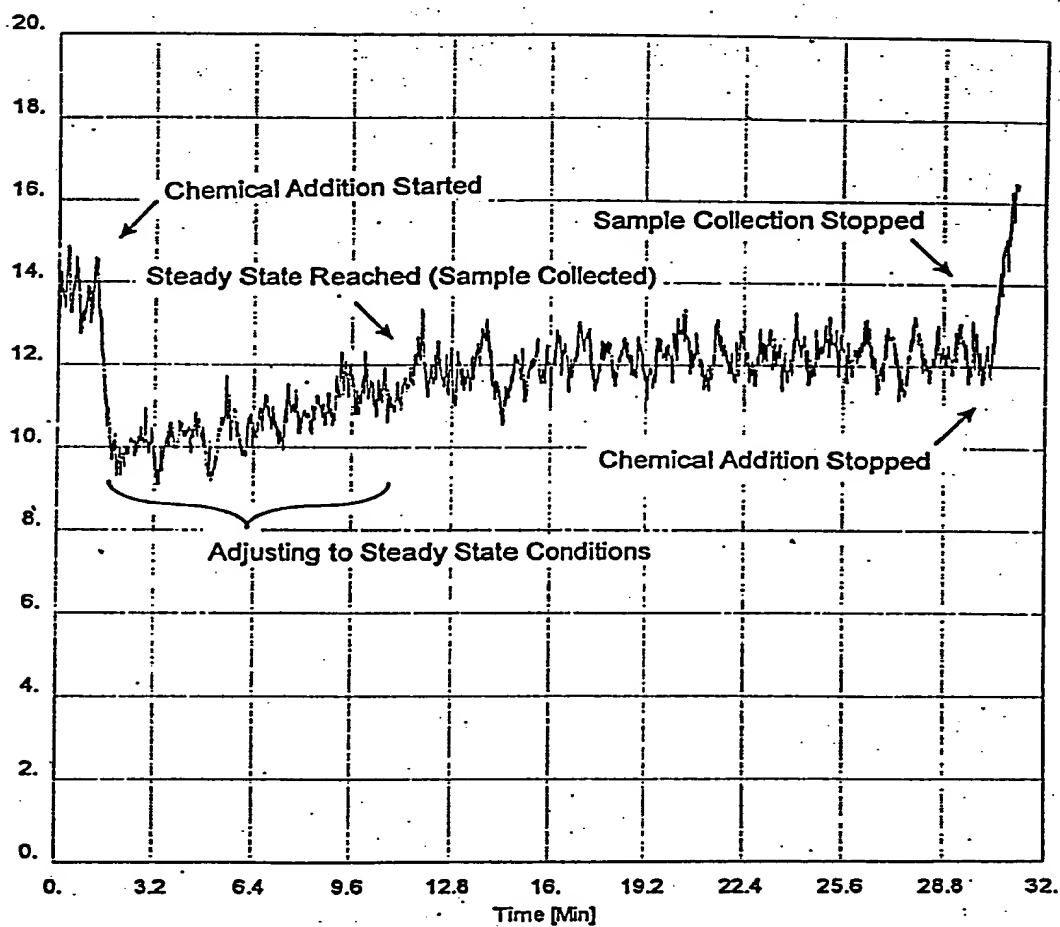


Figure 2 Proton NMR Spectra for PHBV and HEMA Grafted PHBV

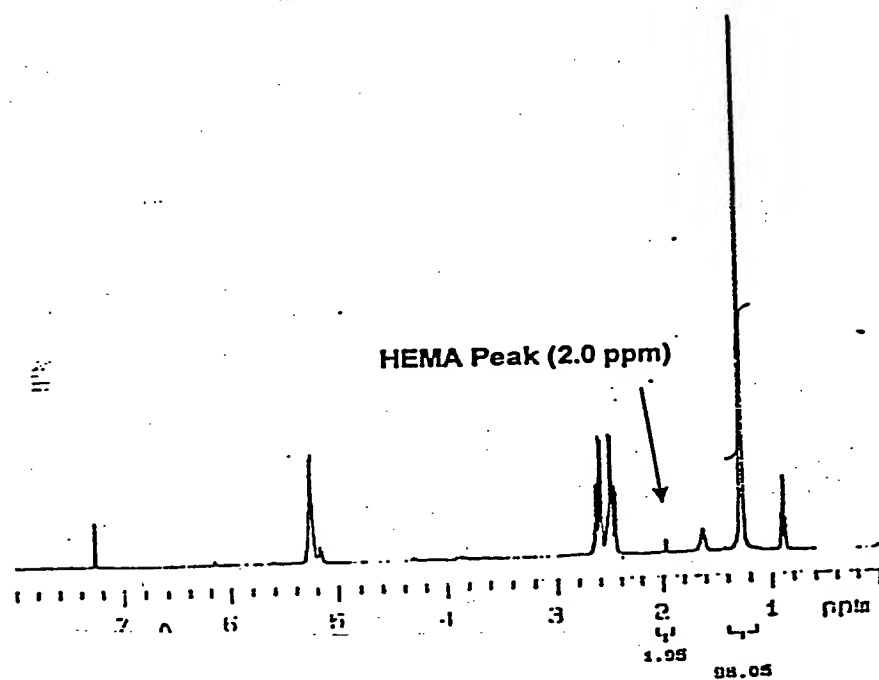
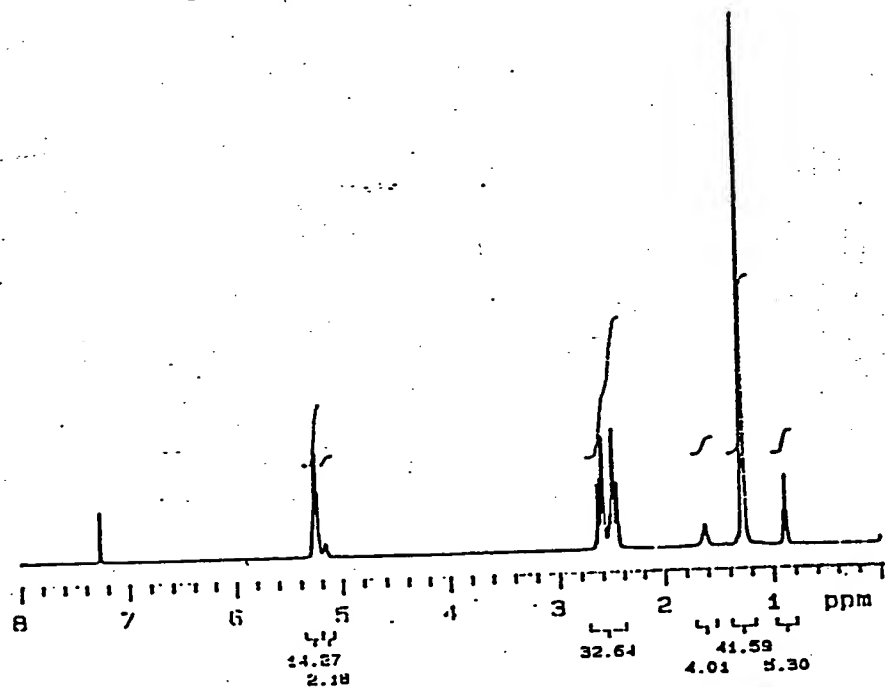


Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

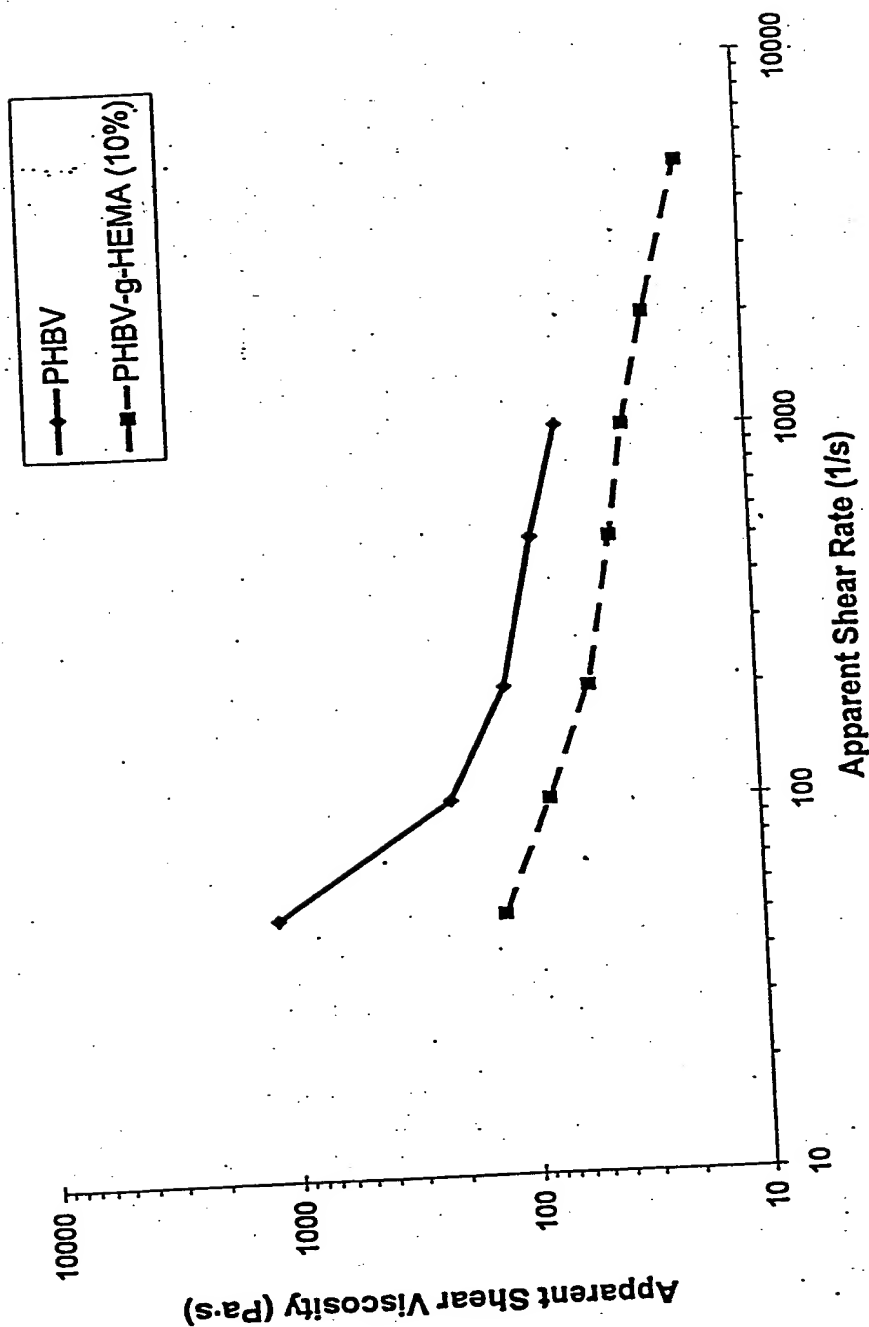
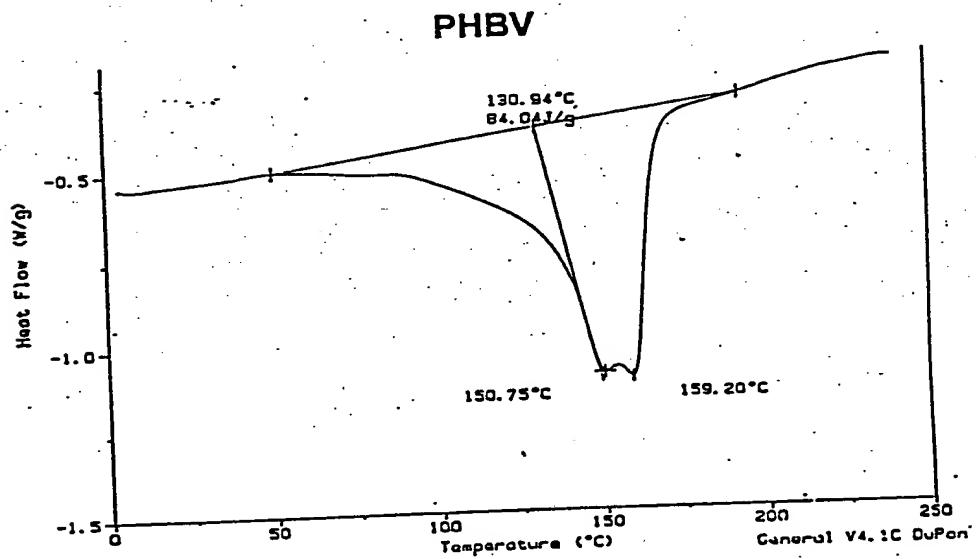


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



HEMA Grafted PHBV

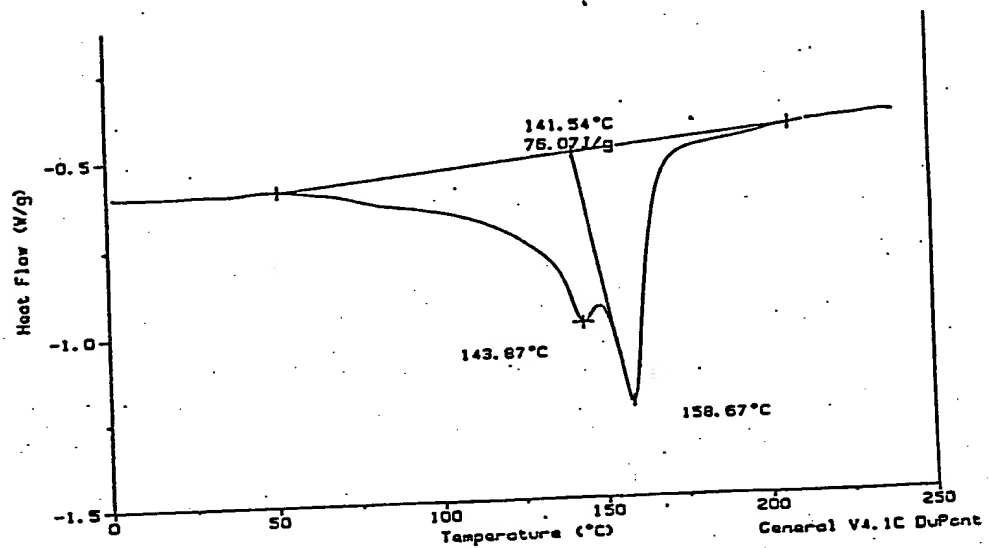


Figure 5 Torque vs. Time Chart for Reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder.

TQ: 0-1500 m.g

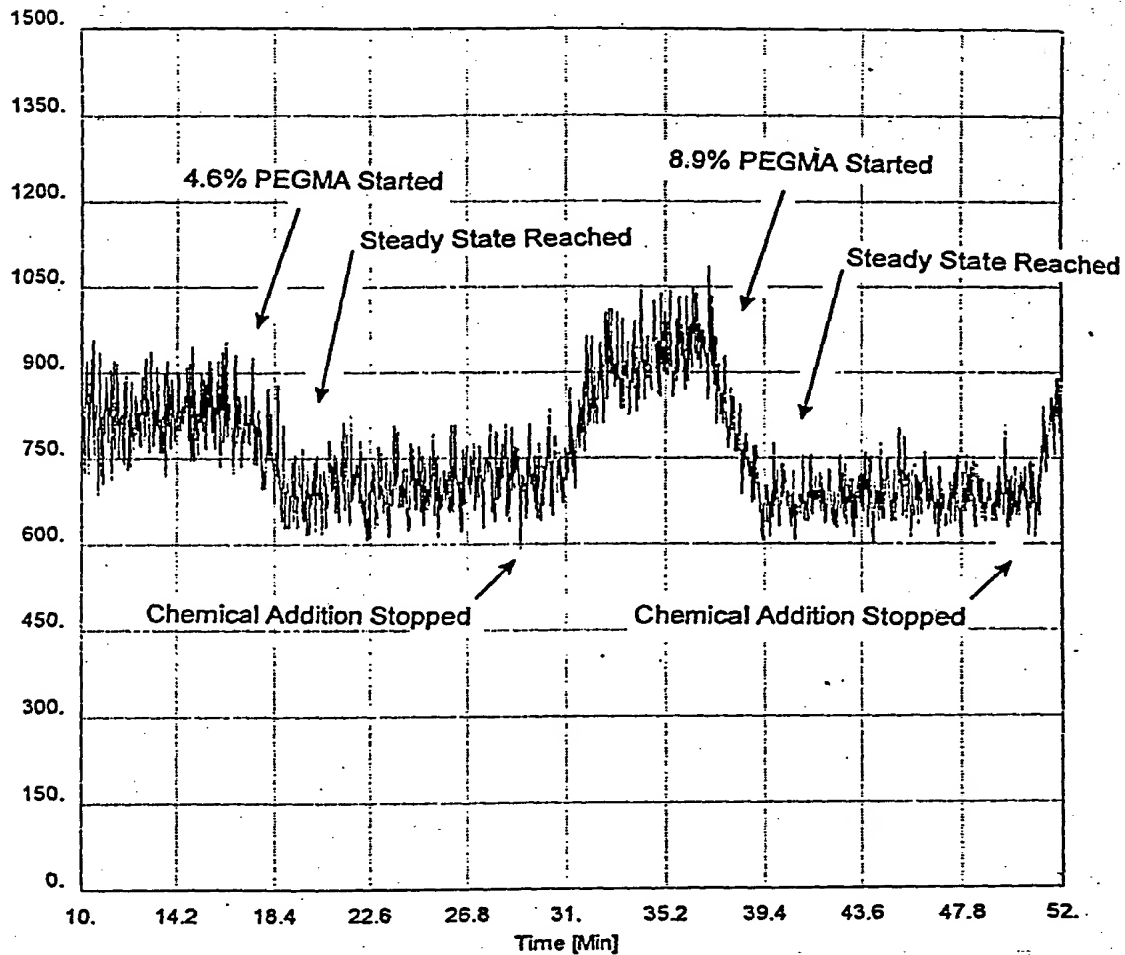


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

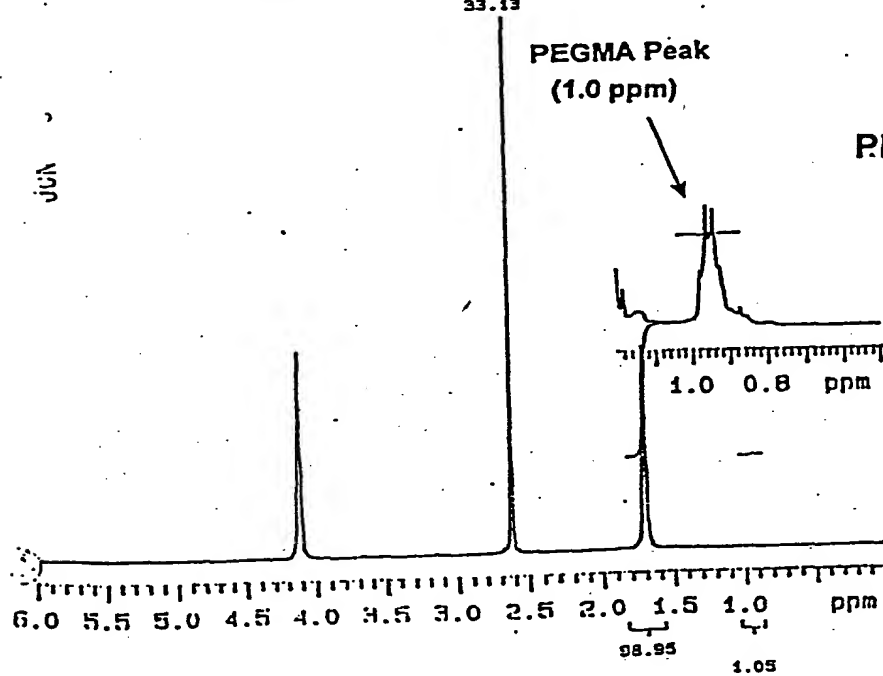
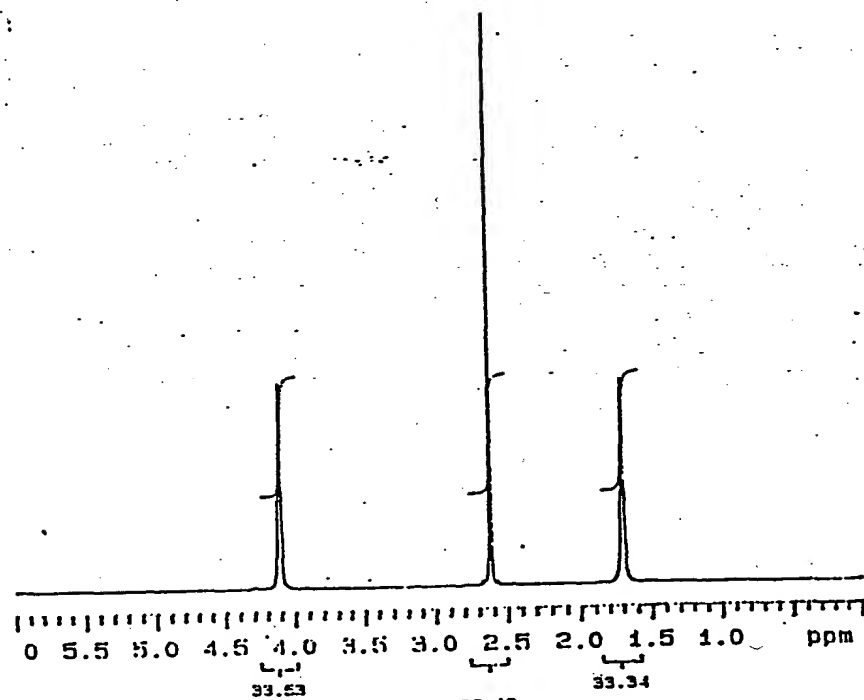


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

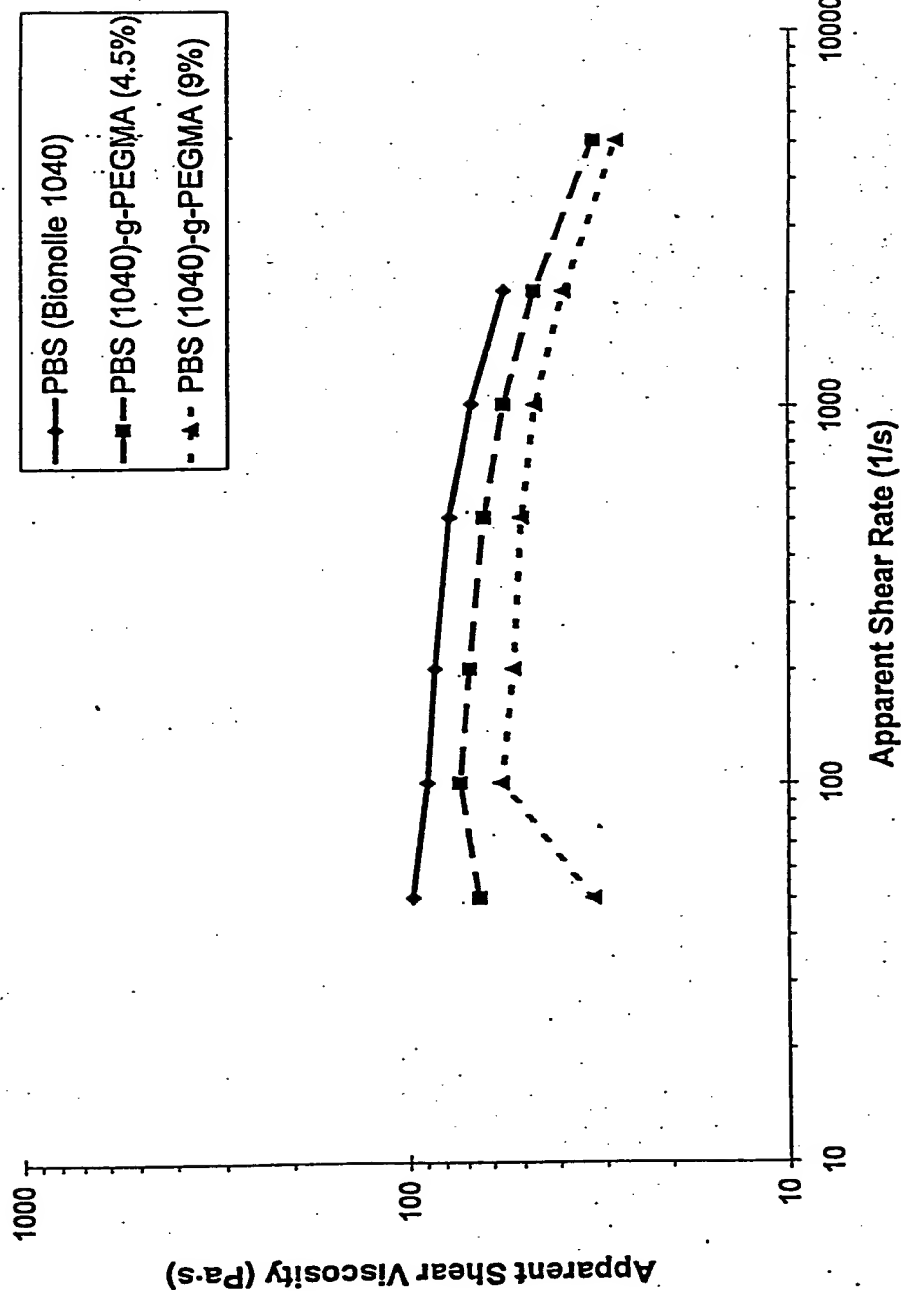


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

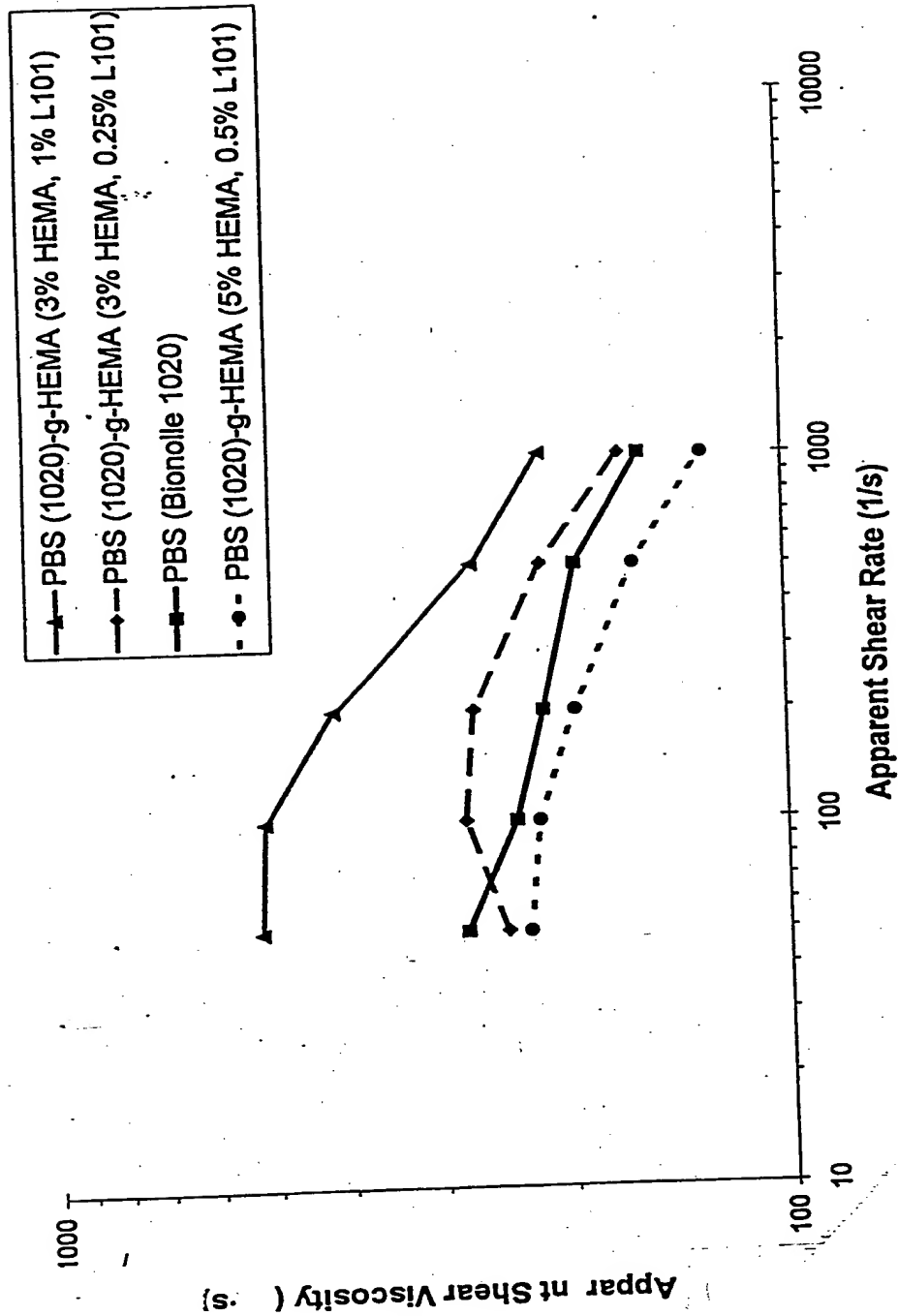
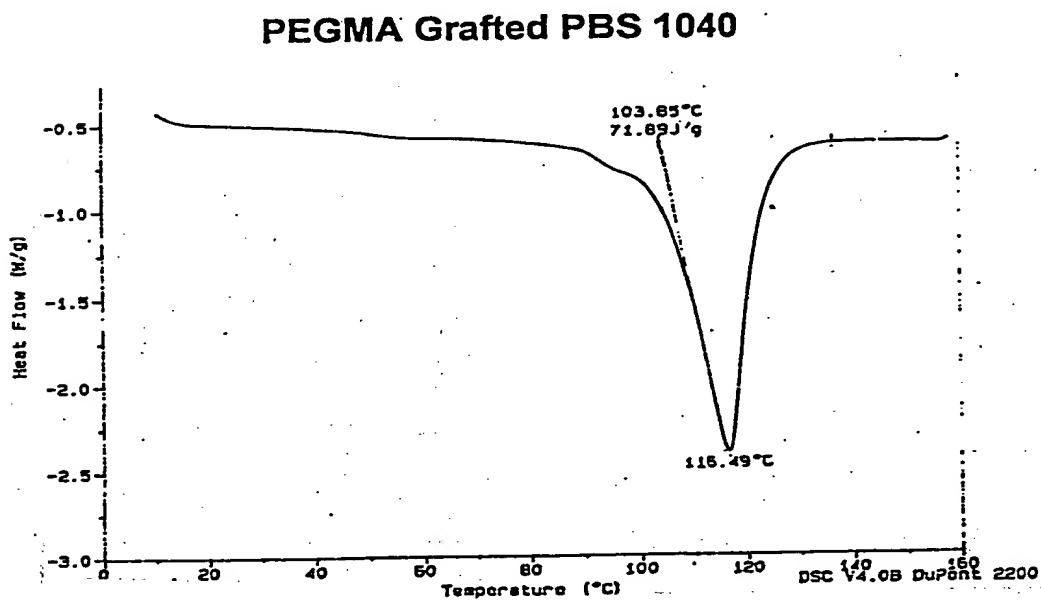
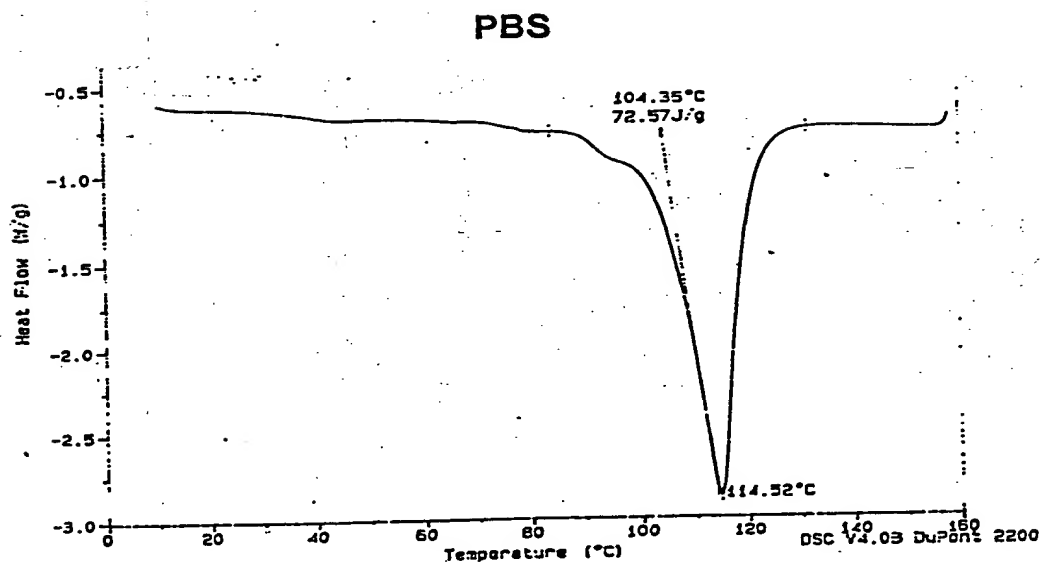
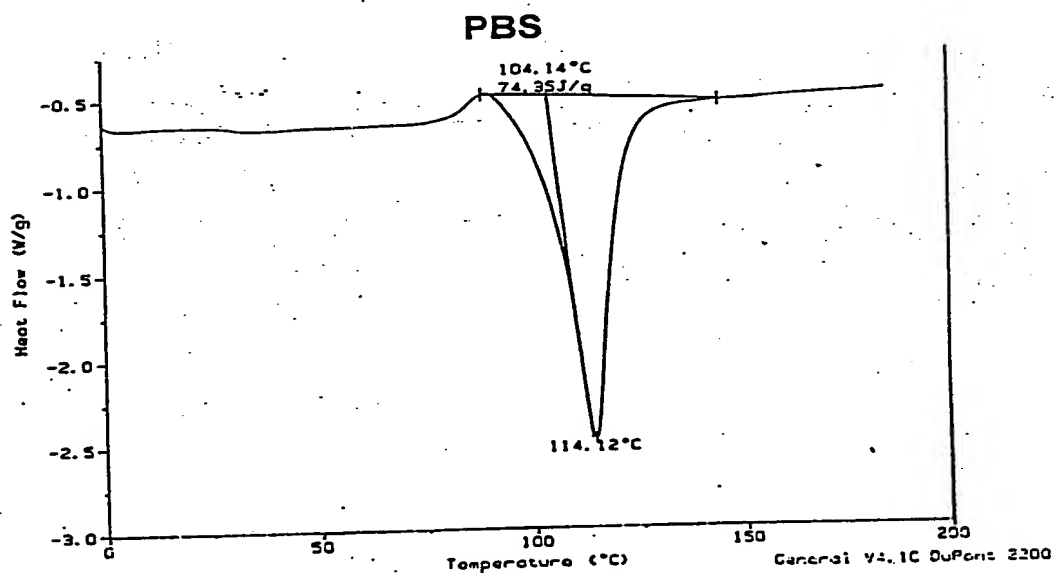


Figure 9 DSC Thermogram for PBS and , EGMA Grafted PBS 1040

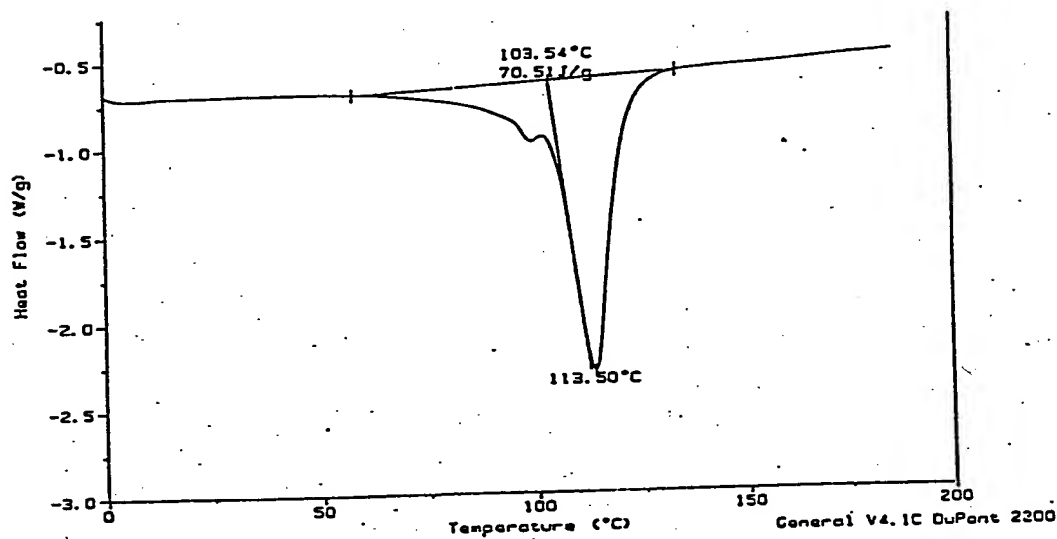


T0E2H0" / 20E5/60

Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

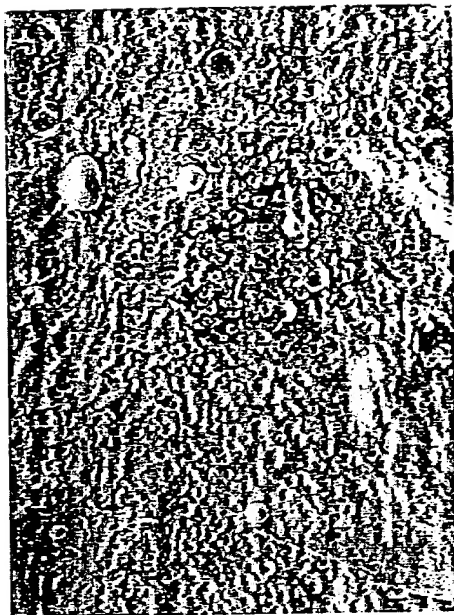


HEMA Grafted PBS 1020



FOE240" / 0ES/60

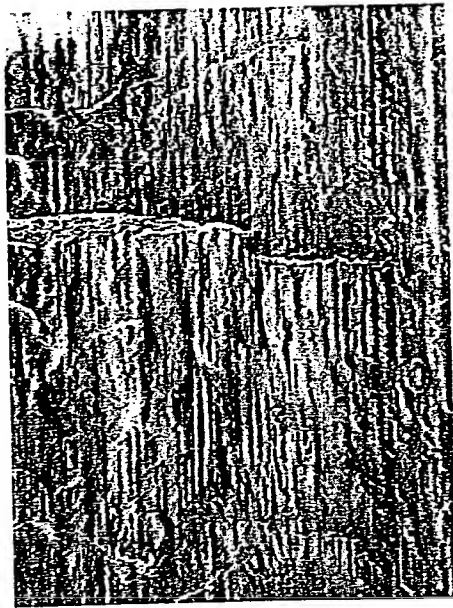
Figure 11



— 10 µm

TOE240" 22055260

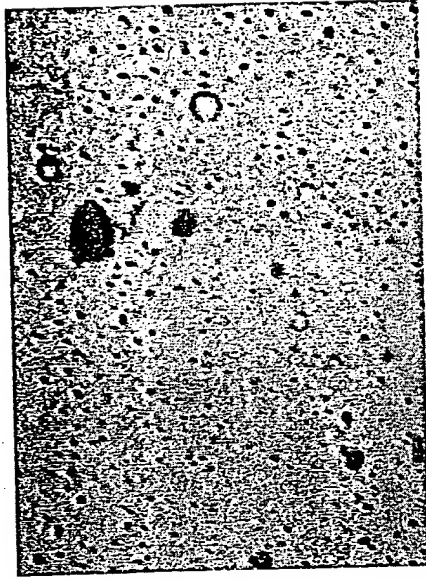
Figure 12



— 10 µm

095307 2/055/60

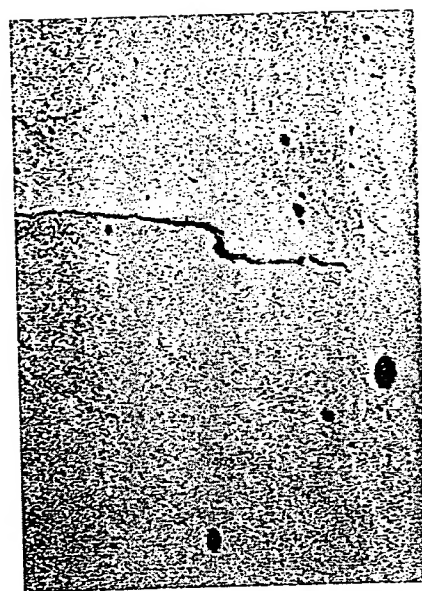
Figure 13



— 10 μm

TOE2H0" / 20ES/60

Figure 14



— 10 μm

Figure 15
 T_m of PEO Phase of Reactive Blends

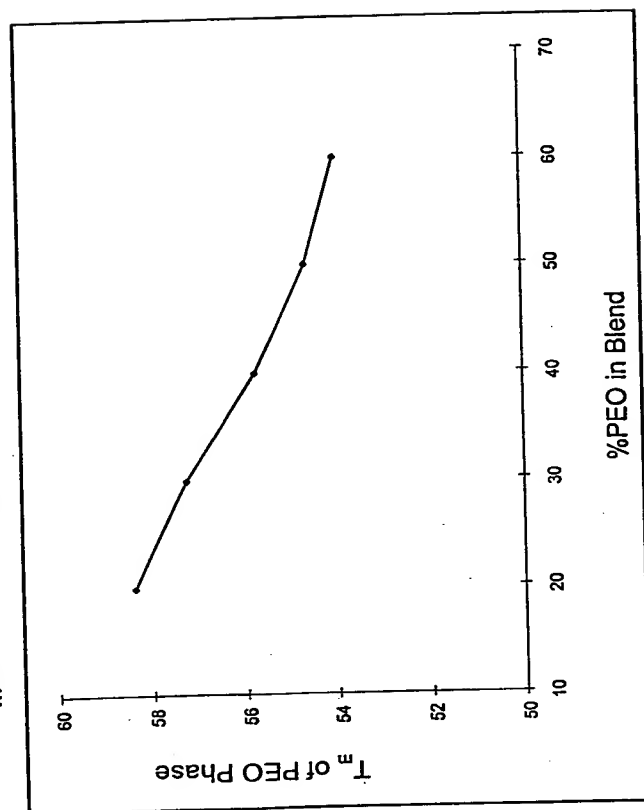


Figure 16

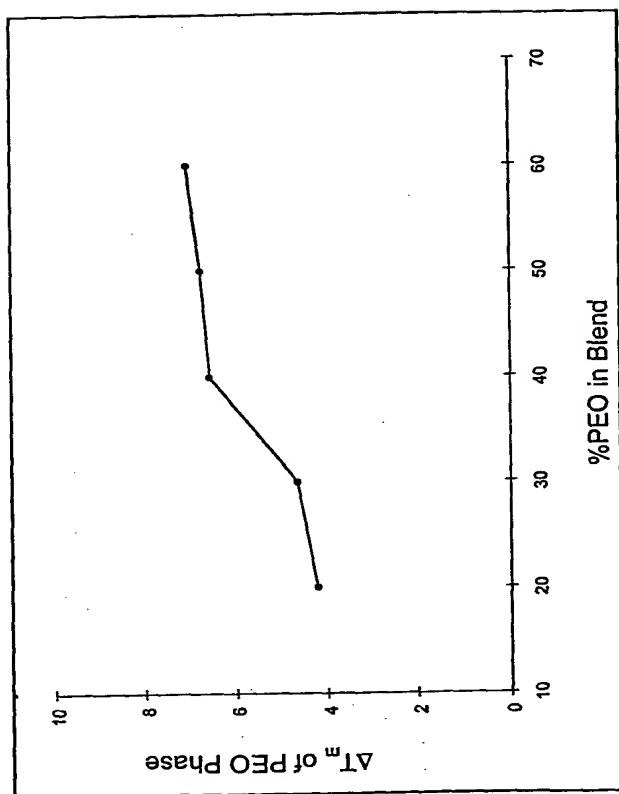
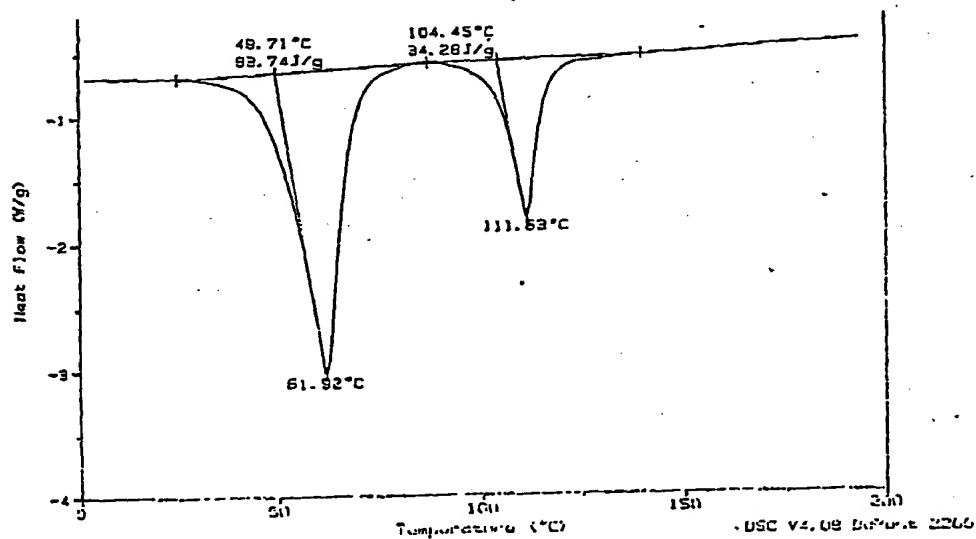
 $\Delta T_m = T_m$ (PEO Phase of Physical Blends) - T_m (Reactive Blends)

Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend

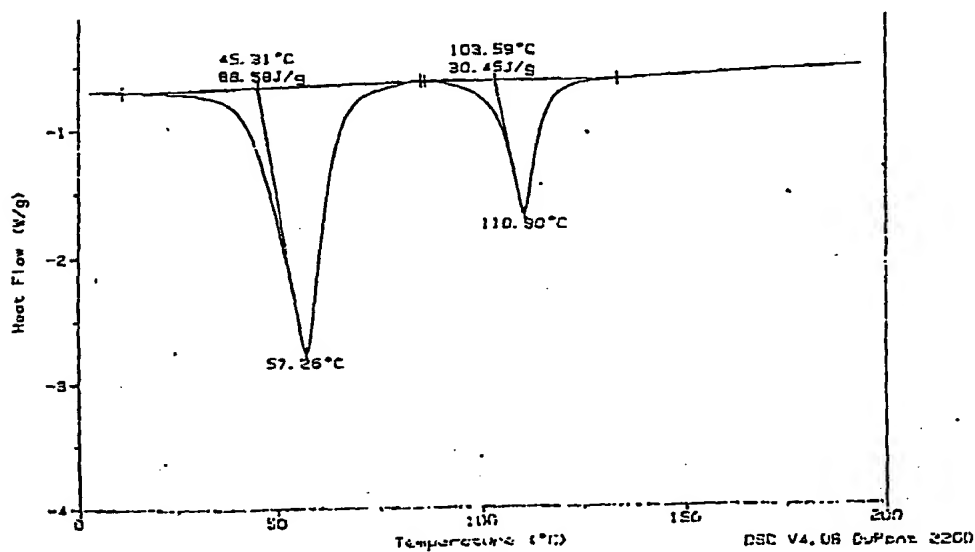


Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

